

BOARD OF FIREFIGHTING PERSONNEL  
STANDARDS AND EDUCATION

Firefighter II, Fire Engineering

Sample Test



7/10/15

Version 0

**Firefighter 2**

1. NFPA 101, Professional Qualifications for Firefighter 2008 Edition
2. Fire Engineering Handbook

1. Halon fixed systems extinguish fires through which means?
  - A. Cooling
  - B. Smothering
  - C. Disrupting the chemical chain reaction
  - D. Removing the fuel from the fire
2. T F A roll call held after building evacuation is also known as a personnel accountability report (PAR).
3. The NFPA 170 Fire Safety and Emergency Symbols should be used on pre-incident plans and diagrams to mark key spaces and equipment. A diamond with the letters HD in center is the symbol for \_\_\_\_\_.
  - A. hot danger
  - B. high definition
  - C. heat deflection
  - D. heat detector
4. This is the normal type of sprinkler system used where there is a risk of the system freezing.
  - A. Dry system
  - B. Wet system
  - C. Residential system
  - D. Carbon-monoxide system
5. Where should one hook an attack line into a standpipe system during a fire in a multistory building?
  - A. One floor below the fire floor
  - B. Fire floor
  - C. One floor above the fire floor
  - D. Two floors below the fire floor
6. A vertical run of a sprinkler or standpipe system that supplies horizontal system pipes is called what?
  - A. Riser
  - B. Branch
  - C. Horizontals
  - D. Limbs
7. T F Smoke, not heat, is responsible for the majority of fire deaths in the United States.
8. There are several resources to garner information on fire safety for presentations to the public. One resource is the website of the \_\_\_\_\_.
  - A. NFL
  - B. OSHA
  - C. Underwriters Laboratories (UL)
  - D. USFA

9. Firefighters who understand the procedures of a fire investigation are a valuable tool to the \_\_\_\_\_.  
A. fire investigator  
B. chief officer  
C. homeowner  
D. police
10. Which of the following is typical of Level 2 staging?  
A. Units report to a base or camp and are assigned or returned to duty.  
B. Units report directly to the emergency scene and report in person to IC.  
C. Units report to the staging area and report to the manager until needed by IC.  
D. Units arrive and radio IC and wait approximately 1 block away.
11. Propane cylinders with the OPD valve have what shaped handle?  
A. Oval-shaped  
B. Star-shaped  
C. Triangular-shaped  
D. Octagonal-shaped
12. T F Polar solvents do not mix with water and generally float on water.
13. What is the explosive range of natural gas?  
A. Between 3 % and 5 %  
B. Between 5 % and 15 %  
C. Between 20 % and 30 %  
D. Between 25 % and 35 %
14. The firefighter's observations should include \_\_\_\_\_.  
A. unusual odors detected by first-arriving units  
B. wind direction and speed  
C. location of the fire  
D. All of the above
15. A home fire-safety survey, done by a firefighter, is \_\_\_\_\_.  
A. mandated by NFPA Statute 143.12  
B. voluntary  
C. required by local statute  
D. not worth the investment of time
16. An example of a visual notification device would be \_\_\_\_\_.  
A. water-gong device  
B. strobe device  
C. siren device  
D. annunciation device

17. When surveying a building equipped with an elevator, note the following details, except:
- A. Location of the pit room
  - B. Location of the mechanical room
  - C. Depth of the pit room
  - D. Location of blind shafts
18. T F Fires in forklifts should be approached by firefighters using two handlines
19. T F As part of the interior pre-incident survey, it is important to note the type of floor decking.
20. With the addition of ethanol and alcohol to gasoline, NFPA 11 recommends that all foam, even AFFF, be \_\_\_\_\_ with a foam nozzle.
- A. aerated
  - B. deflected
  - C. snowstormed
  - D. rolled-on
21. Newer propane cylinders are equipped with an OPD valve, which is built into the valve to shut off the valve when the cylinder has the correct amount of liquid. OPD stands for \_\_\_\_\_.
- A. overfill protection device
  - B. overfill prevention device
  - C. overloading prevention device
  - D. optical protection device
22. T F Sprinkler heads are a type of heat detector.
23. T F Abandoned buildings should not be searched.
24. The number of personnel one supervisor can effectively manage (span of control) is generally \_\_\_\_\_.
- A. 1 to 3
  - B. 2 to 7
  - C. 5 to 9
  - D. 10 or more
25. The number of units sent on an alarm is a function of local departmental policy and is often determined by \_\_\_\_\_.
- A. size of the department
  - B. what makes the best showing for the community
  - C. the number of units properly fueled
  - D. the economic status of the neighborhood